

README

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1 Design decisions

1.1 Data

For consistency reasons since `Node.js` was an imposed choice for the back-end, and to not impose to my reviewer to install another language, I would have chosen to load the data in `Javascript`. But since I was allowed to use Docker this was not a problem anymore. So since time was limited, I choose Python to get the data in the database as it was the language I was more confident with.

1.2 Database

Since the `MySQL` official Docker image was more than 100MB, I thought it was overkill for a simple application like this one, so I eliminated `MySQL`. I surprisingly found a lean `alpine` version of `PostgreSQL` which was less than 30MB, so I hesitated between `PostgreSQL` and `SQLite`. At the end I chose

to go with **PostgreSQL** because it was simpler to use with Docker. Without Docker I would have chosen to go with **SQLite**. I also chose to go with the **SQLAlchemy** ORM in case I had some problem down the road so that it would be easy to switch to another database in case (and also because I wanted to learn it).

1.3 Front-end

Since I have a really small experience with front-end frameworks, and since time was limited, I choose the one I read it had the more gentle learning curve, e.g. **Vue.js**. Without the time limiting constraint, I would have chosen React.

2 Setup the app

Just run `docker-compose up`.

3 Time spent

Design decisions	2h
Pulling data from PubMed	2h
Database design	6h
Docker containerization	4h

4 FDA 21 CFR 820.30